

## ROLLING SLIDE PARTS

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**Inventor:** KADOKAWA SATOSHI; MURAKAMI YASUO

**Applicant:** NIPPON SEIKO KK

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- International: **F16H53/06; C21D9/40; F16C3/02; F16H53/00; C21D9/40; F16C3/02; (IPC1-7): F16C3/02; C21D9/40; F16H53/06**

- European:

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### Abstract of JP10047334

**PROBLEM TO BE SOLVED:** To ensure durability and wear resistance by regulating the quantity of carbide in a surface layer, hardness, the decomposition ratio of residual austenite associated with surface reinforcing work and surface roughness respectively to the specific value. **SOLUTION:** This rolling slide part is used in the state of coming in rolling contact or sliding contact with another opposed part. In the case where a range of 0-50 $\mu$ m in depth from the surface is made a surface layer part, the rate of carbide contained in this surface layer is 10-25vol%, the decomposition ratio of residual austenite of the surface layer part to the initial value is 1/10-3/10, the hardness of the surface layer part is Hv830-Hv960, and surface roughness is 25 $\mu$ m. Sufficient durability and wear resistance can thereby be ensured even under such a severe condition as to be lubricated only by lubricating oil with soot and other insoluble components mixed therein.

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